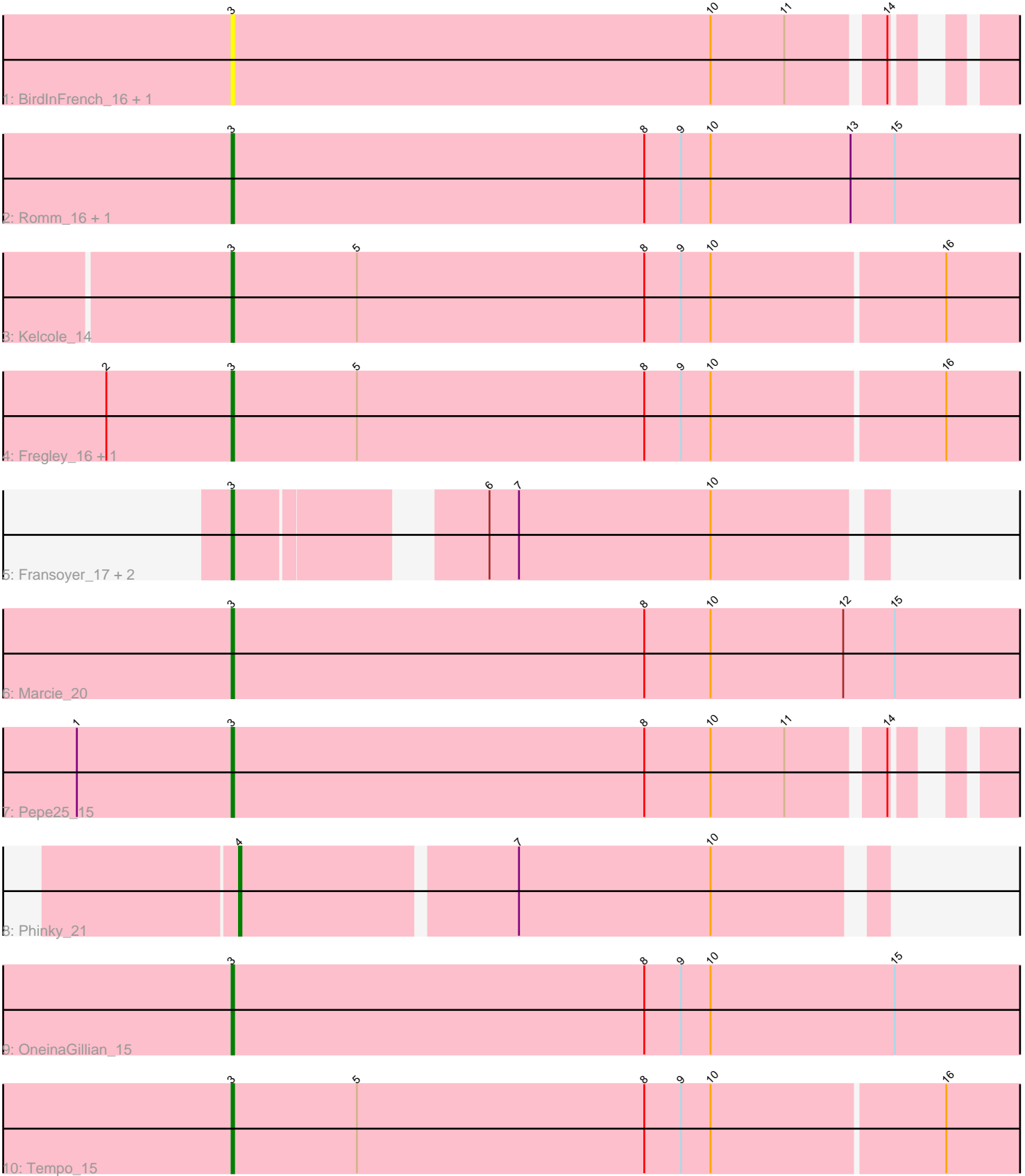# Pham 5352

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

# Pham 5352 Report

This analysis was run 04/05/24 on database version 557.

Pham number 5352 has 15 members, 3 are drafts.

Phages represented in each track:
• Track 1 : BirdInFrench_16, Wilca_16
• Track 2 : Romm_16, RobinRose_16
• Track 3 : Kelcole_14
• Track 4 : Fregley_16, CandC_14
• Track 5 : Fransoyer_17, RubyRalph_17, SadLad_18
• Track 6 : Marcie_20
• Track 7 : Pepe25_15
• Track 8 : Phinky_21
• Track 9 : OneinaGillian_15
• Track 10 : Tempo_15


***Summary of Final Annotations (See graph section above for start numbers):***


The start number called the most often in the published annotations is 3, it was called in 11 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BirdInFrench_16, CandC_14, Fransoyer_17, Fregley_16, Kelcole_14, Marcie_20, OneinaGillian_15, Pepe25_15, RobinRose_16, Romm_16, RubyRalph_17, SadLad_18, Tempo_15, Wilca_16,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• Phinky_21,

**Summary by start number:**

Start 3:
• Found in 14 of 15 ( 93.3% ) of genes in pham
• Manual Annotations of this start: 11 of 12
• Called 100.0% of time when present

• Phage (with cluster) where this start called: BirdInFrench_16 (EG), CandC_14 (EG), Fransoyer_17 (EG), Fregley_16 (EG), Kelcole_14 (EG), Marcie_20 (EG), OneinaGillian_15 (EG), Pepe25_15 (EG), RobinRose_16 (EG), Romm_16 (EG), RubyRalph_17 (EG), SadLad_18 (EG), Tempo_15 (EG), Wilca_16 (EG),

Start 4:
• Found in 1 of 15 ( 6.7% ) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phinky_21 (EG),

**Summary by clusters:**

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:
•Start number 3 was manually annotated 11 times for cluster EG.
•Start number 4 was manually annotated 1 time for cluster EG.


*Gene Information:*
Gene: BirdInFrench_16 Start: 4295, Stop: 4597, Start Num: 3
Candidate Starts for BirdInFrench_16:
(Start: 3 @4295 has 11 MA's), (10, 4490), (11, 4520), (14, 4556),

Gene: CandC_14 Start: 3799, Stop: 4125, Start Num: 3
Candidate Starts for CandC_14:
(2, 3748), (Start: 3 @3799 has 11 MA's), (5, 3850), (8, 3967), (9, 3982), (10, 3994), (16, 4087),

Gene: Fransoyer_17 Start: 5080, Stop: 5319, Start Num: 3
Candidate Starts for Fransoyer_17:
(Start: 3 @5080 has 11 MA's), (6, 5164), (7, 5176), (10, 5254),

Gene: Fregley_16 Start: 4337, Stop: 4663, Start Num: 3
Candidate Starts for Fregley_16:
(2, 4286), (Start: 3 @4337 has 11 MA's), (5, 4388), (8, 4505), (9, 4520), (10, 4532), (16, 4625),

Gene: Kelcole_14 Start: 4190, Stop: 4516, Start Num: 3
Candidate Starts for Kelcole_14:
(Start: 3 @4190 has 11 MA's), (5, 4241), (8, 4358), (9, 4373), (10, 4385), (16, 4478),

Gene: Marcie_20 Start: 4895, Stop: 5224, Start Num: 3
Candidate Starts for Marcie_20:
(Start: 3 @4895 has 11 MA's), (8, 5063), (10, 5090), (12, 5144), (15, 5165),

Gene: OneinaGillian_15 Start: 3869, Stop: 4198, Start Num: 3
Candidate Starts for OneinaGillian_15:
(Start: 3 @3869 has 11 MA's), (8, 4037), (9, 4052), (10, 4064), (15, 4139),

Gene: Pepe25_15 Start: 4295, Stop: 4597, Start Num: 3
Candidate Starts for Pepe25_15:

(1, 4232), (Start: 3 @4295 has 11 MA's), (8, 4463), (10, 4490), (11, 4520), (14, 4556),

Gene: Phinky_21 Start: 5646, Stop: 5894, Start Num: 4
Candidate Starts for Phinky_21:
(Start: 4 @5646 has 1 MA's), (7, 5754), (10, 5832),

Gene: RobinRose_16 Start: 4022, Stop: 4351, Start Num: 3
Candidate Starts for RobinRose_16:
(Start: 3 @4022 has 11 MA's), (8, 4190), (9, 4205), (10, 4217), (13, 4274), (15, 4292),

Gene: Romm_16 Start: 4022, Stop: 4351, Start Num: 3
Candidate Starts for Romm_16:
(Start: 3 @4022 has 11 MA's), (8, 4190), (9, 4205), (10, 4217), (13, 4274), (15, 4292),

Gene: RubyRalph_17 Start: 5014, Stop: 5253, Start Num: 3
Candidate Starts for RubyRalph_17:
(Start: 3 @5014 has 11 MA's), (6, 5098), (7, 5110), (10, 5188),

Gene: SadLad_18 Start: 5471, Stop: 5710, Start Num: 3
Candidate Starts for SadLad_18:
(Start: 3 @5471 has 11 MA's), (6, 5555), (7, 5567), (10, 5645),

Gene: Tempo_15 Start: 4217, Stop: 4543, Start Num: 3
Candidate Starts for Tempo_15:
(Start: 3 @4217 has 11 MA's), (5, 4268), (8, 4385), (9, 4400), (10, 4412), (16, 4505),

Gene: Wilca_16 Start: 4295, Stop: 4597, Start Num: 3
Candidate Starts for Wilca_16:
(Start: 3 @4295 has 11 MA's), (10, 4490), (11, 4520), (14, 4556),